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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/867,596	05/31/2001	Tsutomu Masuko	Q61608	7102

7590 08/21/2003

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EXAMINER

LISH, PETER J

ART UNIT	PAPER NUMBER
	1754

DATE MAILED: 08/21/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/867,596	MASUKO ET AL.
	Examiner Peter J Lish	Art Unit 1754

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 June 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 7-26 is/are pending in the application.

4a) Of the above claim(s) 7-20 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 21-26 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

4) Interview Summary (PTO-413) Paper No(s). _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

DETAILED ACTION

Applicant's arguments filed 6/18/03 have been fully considered but they are not persuasive. Applicant argues that there is no motivation to replace the boric acid or boron oxide in the process of Yasuhiro with boron carbide; however, Masaru teaches the equivalence of boric acid and boron carbide as graphitization promoting substances using identical treatments. Applicant additionally argues that there is no teaching of the final boron content of the carbon black product; however, it is expected that boron addition between 0.1-10 % will yield a final boron content within the claimed range.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

Claims 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro et al. (JP 62246813 A) taken with Masaru et al. (JP 2000-273351).

Yasuhiro et al. disclose a process for the production of a graphitized carbon black powder. A boron compound, such as boron oxide or boric acid, is mixed with carbon black powder, having a diameter of between 10-100 nm, to the extent of about 3 wt% (of B). The mixture is then heated to a temperature as high as 2800 °C to effect graphitization.

Masaru et al. disclose the production of a carbon black formed by mixing carbon black and a graphitization promoting substance, such as boron carbide, in a weight percentage between 0.1-10 % (of B), and heating at a temperature above 2,000 °C to effect graphitization. It would have been obvious to one of ordinary skill at the time of invention to substitute the boron

graphitization promoter of Masaru et al. in the process of Yasuhiro et al. because it provides the same effect. Moreover, it would have been obvious to one of ordinary skill at the time of invention to perform the process of Masaru et al. on the carbon black particles of Yasuhiro et al. in order to provide a graphitized carbon black excellent in corrosion resistance and suitable as a carrier of a catalyst.

Because there is no difference seen between the process taught by the combined references of Masaru et al. and Yasuhiro et al. and that of the applicant, it is expected that the product produced by the combined process will have the same properties as that of the applicant.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J Lish whose telephone number is 703-308-1772. The examiner can normally be reached on 9:00-6:00 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-305-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

PL
August 11, 2003



STUART L. HENDRICKSON
PRIMARY EXAMINER